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(54) **Biosensor systems and methods for determining the presence of biomolecules**

(57) Systems and method for determining the presence of biomolecule are disclosed. Briefly described, a representative biosensor system 100 includes a target complex 150 disposed on a conductive substrate 105. The target complex 150 includes a target biomolecule 115 and a target nanoparticle 125. The target nanoparticle 125 is disposed on the target biomolecule 115. In addition, the biosensor includes an image nanoparticle 135 disposed on the target nanoparticle 125. The image nanoparticle 135 is electrochemically deposited on the target nanoparticle 125. The biosensor system also includes a detector capable of determining the presence of the target biomolecule 115 by detecting the image nanoparticle 135.

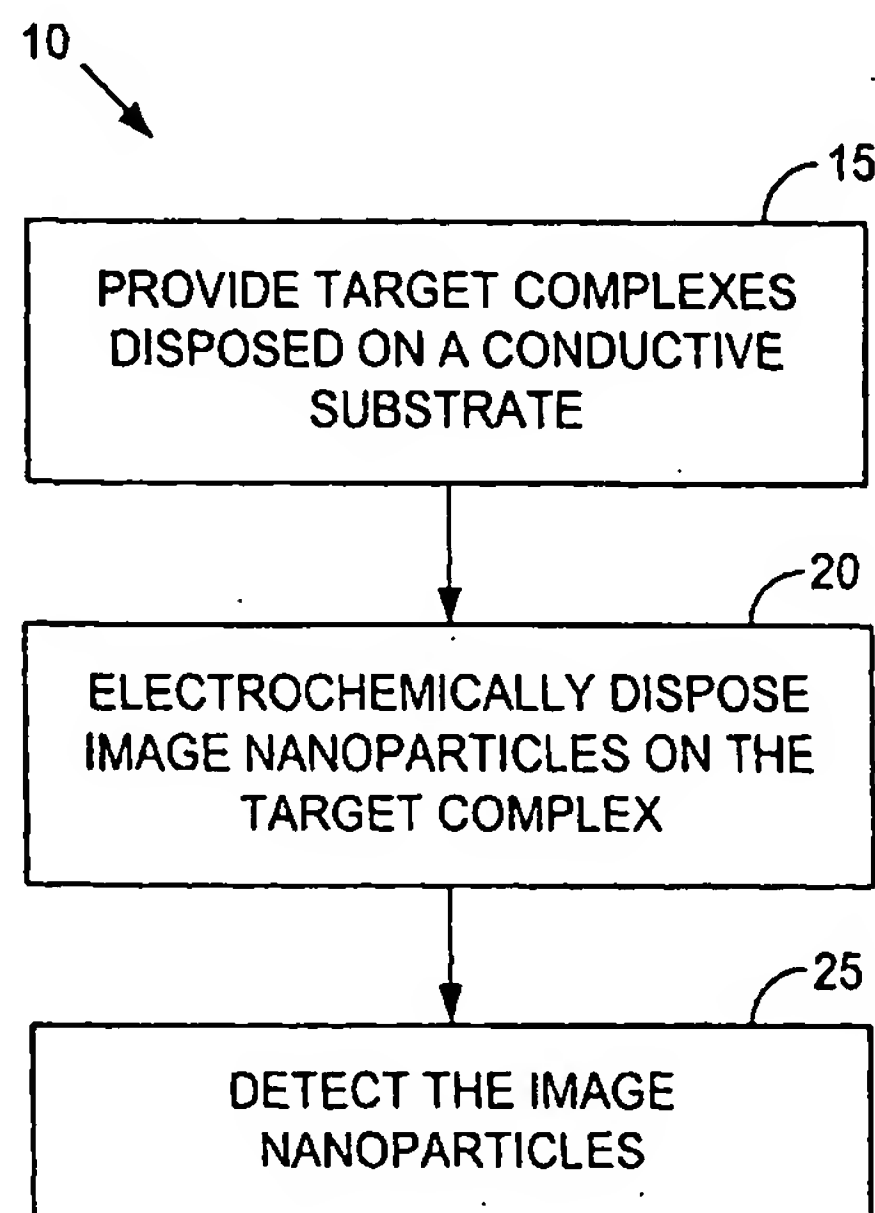


FIG. 1



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EUROPEAN SEARCH REPORT

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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 6 June 2005	Examiner Komenda, P
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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